

Research Report 1350

A Guide to Implementation of Training Products

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This guide describes a strategy for operational units of the U.S. And developer ensure that units use an introduced. The procedures outling implementation problems, planning program, and monitoring the entire occurs in four stages: orientation	my. The purpose indisustain new promed here can assistant and executing a week implementation of	is to help the training oducts once they are st in identifying potential well designed implementation process. Implementation		

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each stage, the guide describes how concerned individuals and agencies prepare, execute, and monitor implementation. Using this guide will assist training product managers in coordinating the efforts of developers, sponsors, and users of U.S. Army training products.

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A Guide to Implementation of Training Products

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The Presidio of Monterey Field Unit has an ongoing program of research on Army unit training. One facet of this research is an examination of why and how some training innovations are used by operational units while others are ignored. The problem of non-use is Army-wide and has been called the "implementation gap."

At root, implementation gaps exist because of a lack of communication between the training developer and the operational units which are expected to use the innovation. All training innovations require time for units to study the innovation, understand its advantages and where it fits into unit training, decide what resources it requires, and to incorporate it fully into the routine training system. During this time, even the best training innovation needs support, and providing, planning, and orchestrating this support requires the cooperation of the developer, MACOM headquarters, and user units.

This guide provides a roadmap to help TRADOC developers and the headquarters of MACOMS plan the implementation of a training innovation. When used before the innovation is fielded, the guide will lead to a consideration of the problems the innovation will encounter and to the development of strategies or support needed to overcome those problems. The goal is to support the training innovation through the critical fielding phase until it achieves the status of routine and effective use.

Fuller discussion of the "implementation gap" problem is provided by ARI Research Report 1344 entitled On Closing the Implementation Gap: Symposium Proceedings (in press).

EDGAR M. JOHNSON Technical Director

Elga Mohisa

EXECUTIVE SUMMARY A GUIDE TO IMPLEMENTATION OF TRAINING PRODUCTS

Requirement:

This guide describes a strategy for implementing new training products in US Army units. Its purpose is to help the training product manager ensure that operational units use and sustain new products once they are introduced. This guide will assist the product manager in planning, executing and monitoring an implementation effort that begins when the product is developed and ends when it is fully integrated into training in units.

The guide was developed because there is little information available at present on how to implement new training products to ensure that they are used as intended. The Army already has methods for developing a product (see US Army Training and Doctrine Command, TRADOC Pamphlet 350-30 Interservice Procedures for Instructional Systems Development, for example), for using a product in unit training (e.g., Training Circulars and Training Manuals), and for evaluating product effectiveness (e.g., TRADOC Pamphlet 71-8 Analyzing Training Effectiveness). This guide bridges the gap between development on the one hand and use and evaluation on the other. Without efforts by product managers in this critical area, a demonstrably effective training innovation may, after delivery to the field, never be used.

Product:

The guide was developed based on studies conducted during an evaluation of the implementation of MILES, the Multiple Integrated Laser Engagement System. This Tactical Engagement Simulation (TES) was expected to face a wide range of implementation problems; accordingly, a monitoring effort was begun to track the progress of MILES fielding and to identify any implementation difficulties. During 1979-80 a model entitled A Strategy for Coping With Change in Army training was developed. The strategy was then translated into the present practical quide to assist product managers in the implementation of training products which are to be exported to operational units.

Use:

The guide first provides procedures for doing an implementation analysis to identify problems likely to be encountered during implementation. It then presents a method for planning an implementation effort to integrate a specific product into a particular training environment.

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A GUIDE TO IMPLEMENTATION OF TRAINING PRODUCTS

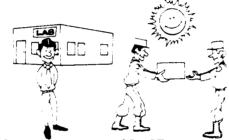
INTRODUCTION THE NEED FOR A GUIDE TO IMPLEMENTATION

The United States Army develops, implements and uses its own training products. This life-cycle control is an advantage, but some problems occur in meshing the efforts of developers, such as US Army Training and Doctrine Command (TRADOC) and US Materiel Development and Readiness Command (DARCOM), user units, and Operational Major Army Command (MACOM) sponsors. Each command is primarily concerned with its mission, and often a gap occurs between product hand-off and product use. For example,

a developer may send a high-quality but difficult-to-use product to the field. Users try to continue training and can't find time to gear-up for the new product. Unused products begin to stack up in user units, and an implementation gap opens.

This guide is designed for the product manager of a new training product. It presents a procedure, not only for issuing a product to the field, but also for ensuring that it is used as intended.

IMPLEMENTATION FROM THE DEVELOPER'S POINT OF VIEW



PROUD DEVELOPER PRODUCT MANAGER

NEEDY USER

IMPLEMENTATION
FROM THE
PRODUCT MANAGER'S
POINT OF VIEW



ABSENT DEVELOPER OVERBURDENED PRODUCT MANAGER

UNINTERESTED USER

IMPLEMENTATION FROM THE USER'S POINT OF VIEW



JUST ANOTHER PRODUCT

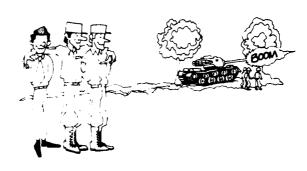
TYPICAL ARMY
TRAINING ENVIRONMENT

THE BENEFITS OF A GUIDE TO IMPLEMENTATION

The bottom line of training product implementation is improved training in operational units. All other activities are means to this end. This guide will further good training in three ways.

It will:

- FOCUS ON USE AND SUSTAINMENT OF TRAINING PRODUCTS IN USER UNITS. The purpose of every recommended action and guideline is to increase the operational unit's ability to accept, operate, manage and control a new training product
- ESTABLISH PROCEDURES TO CO-ORDINATE THE EFFORTS OF ALL THE MAJOR AGENCIES IN THE IMPLE-MENTATION PROCESS. Included here are formal planning and negotiation steps which will bridge the efforts of TRADOC, DARCOM and other MACOMs concerned with implementation of training products. The guide first becomes useful during the full-production and deployment phase of the Life Cycle System Management Model for Army Systems (Department of the Army Pamphlet 11-25) when users need to be informed that a product is on its way to
- the field. The steps in this guide correspond to the Implementation and Control Stages of the Interservice Procedures for Instructional Systems Development Model (TRADOC Pamphlet 350-30) for introducing training products into TRADOC resident training programs. This guide is tailored specifically to introducing and sustaining exportable training products in operational units.
- BUILD-IN FEEDBACK TO CONTROL **IMPLEMENTATION.** Some problems ammunition shortages, maintenance requirements etc. — can be predicted in advance. Other problems can only be detected by monitoring product use in units. It is impossible to predict, for example, how individuals will react to a new product, whether or not they will dislike the product for a non-rational reason. No one knows the overall effects on the training system as a whole; perhaps the product will drain resources from other vital activities. Continued monitoring, using the procedures in this guide, can alert the product manager to problems which arise as the product becomes integrated into Army training.



ORGANIZATION OF THE GUIDE

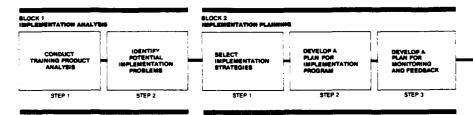
This guide is intended for you, the persons or agencies responsible for implementing exportable training products for US Army training. The guide organizes your effort into four major blocks as shown in Figure 1.

BLOCK 1

Perform an implementation analysis to determine what effort is necessary to get your product used. First conduct a training product analysis; then use the product analysis to identify potential implementation problems.

BLOCK 2

If an implementation effort is necessary, select implementation strategies, develop a plan for an implementation program, and develop a plan for monitoring and feedback.



Throughout this guide worksheets are provided to help you develop and carry out a successful implementation program for your particular training product. These worksheets are not highly detailed, because different kinds of preparations, execution actions and success indicators will apply for implementation of different kinds of products. The worksheets are designed so that you can use your knowledge of the product to fill in the proper level of detail.

Throughout the rest of the guide, Figure 1 is reproduced in miniature with appropriate boxes highlighted to serve as a roadmap and reference guide.

FIGURE 1 OVERVIEW A GUIDE TO IMPLEMENTATION OF TRAINING PRODUCTS

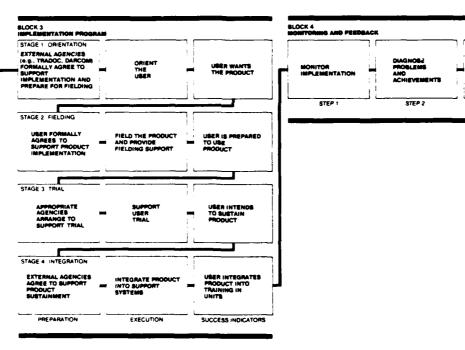
BLOCK 3

Execute an implementation program. Such a program is composed of four stages: 1) Orientation, 2) Fielding, 3) Trial, and 4) Integration. Each stage has a preparation, execution, and success-indicator component.

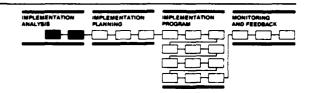
BLOCK 4

Conduct monitoring and feedback during the Implementation Program: diagnose problems and achievements, and provide feedback to appropriate action agencies.

STEP 3



BLOCK 1 IMPLEMENTATION ANALYSIS

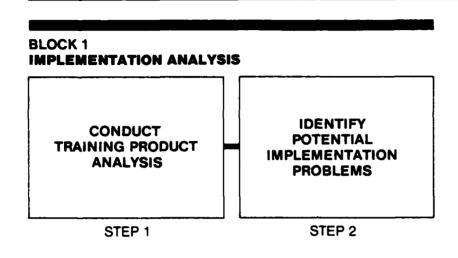


If you have a training product to export, an implementation analysis will estimate what kind of effort will be needed to get it used. An implementation analysis has two steps as shown in Figure 2.

- CONDUCT A TRAINING PRODUCT ANALYSIS: Clearly describe the features of the product which are important to implementation.
- IDENTIFY POTENTIAL IMPLEMENTA-TION PROBLEMS: Analyze how well the product is going to fit into training given 1) the kind of soldiers who will use and manage it and 2) the kind of units to which it is being sent.

A good implementation analysis will put your implementation program right on target. It will direct attention to the real problems and provide a convenient checklist to see that no important details are overlooked. Let's now look at each step in the Implementation Analysis.

FIGURE 2 BLOCK 1 IMPLEMENTATION ANALYSIS



IMPLEMENTATION ANALYSIS CONDUCT TRAINING PRODUCT ANALYSIS STEP 1 CONDUCT TRAINING PRODUCT TRAINING PRODUCT ANALYSIS

DEFINE EXPECTED UTILITY

IDENTIFY SKILL AND INFORMATION REQUIREMENTS

IDENTIFY PRODUCT OVERHEAD (i.e., COST TO USE) DEFINE DEVELOPER'S CONCEPT OF PRODUCT USE

Since the nature of the product determines the manner in which it should be implemented conduct a training product analysis on those features of your product that need to be examined.

- DEFINE EXPECTED UTILITY: What is the product supposed to do for the user? Will it improve collective or individual training performance, reduce current training cost, help commanders improve their diagnostic feedback for training? A clear statement of utility could prove to be your biggest selling point.
- IDENTIFY SKILL AND INFORMATION REQUIREMENTS: What do soldiers have to know and do to use and sustain the product properly? A good task analysis will tell how hard the product is to operate.
- IDENTIFY PRODUCT OVERHEAD: What is the product going to cost to use? Will it require additional ammunition, or support personnel? A realistic cost assessment will greatly assist the user in planning to manage the product.
- DEFINE THE DEVELOPER'S CONCEPT OF PRODUCT USE: How is the product supposed to be used? It is designed for collective or individual training, training evaluation, for use with squads, companies, battalions? A good concept of use must fit well into the way the Army currently plans, prepares, conducts and evaluates training.

Completing a worksheet such as the one shown in Figure 3 will help you in conducting the training product analysis.

FIGURE 3 WORKSHEET FOR TRAINING PRODUCT ANALYSIS

CONDUCT
TRAINING PRODUCT ANALYSIS
Use OT/DT results, FEAs, concept
studies, etc. to identify these
features of the product

features of the	product
Define expected utility:	Identify skill and information requirements:
Performances that will be improved:	Skills users must possess to use and maintain:
2. Training costs that will be reduced:	
3. Improvements in evaluation and feedback	Information that users must have to use product effectively:
4. Improvements in delivery of training:	
Identify product overhead (i.e., cost to use):	Define developer's concept of product use:
Training and support personnel:	Location where it will be used (schools or units? field or classroom?):
2. Time for set up, use, take-down:	Type of training it will support (collective or individual? for which individuals or units?);
3. Facilities for use, storage and maintenance:	3. Where it will fit in the training system, (e.g., training support package for a weapons system, or a product to support the training system or a complete training system.
Accountability and record-keeping requirements:	training system):
 Consumable supplies required to support proper use (e.g., batteries): 	4. Expected frequency of use:

IMPLEMENTATION ANALYSIS IDENTIFY POTENTIAL IMPLEMENTATION PROBLEMS STEP 2

IMPLEMENTATION	MPLEMENTATION	IMPLEMENTATION	MONITORING
AMALYSIS	PLANNING	PROGRAM	AND FEEDBACK

IDENTIFY POTENTIAL IMPLEMENTATION PROBLEMS

ANALYZE FIT
BETWEEN PRODUCT
AND INDIVIDUAL USERS

ANALYZE FIT BETWEEN PRODUCT AND USER ORGANIZATIONS

ACCEPTANCE:
GIVEN CURRENT
PRIORITIES AND
COMMAND EMPHASIS,
WILL "EXPECTED"
UTILITY GAIN READY
ACCEPTANCE?

KNOW-HOW:
GIVEN AVAILABLE
"INFORMATION AND
TRAINING SKILLS,"
DO PERSONNEL HAVE
THE KNOW-HOW TO
USE THE PRODUCT?

MANAGEMENT:
GIVEN CURRENT
RESOURCE AVAILABILITY
WILL "OVERHEAD" BE
EASILY ACCOMMODATED
IN TRAINING
MANAGEMENT?

POLICY:
GIVEN CURRENT
TRAINING GUIDANCE
AND REGULATIONS,
WILL "PRODUCT USE"
BE EASILY INTEGRATED
INTO TRAINING POLICY?

New products can cause problems for individual users and for the operational units by making demands on people's time and units' resources. Identifying potential implementation problems will determine how difficult implementation is likely to be.

 ANALYZE FIT BETWEEN PRODUCT AND INDIVIDUAL USERS. Based on the training product analysis (Pg. 9) and your knowledge of the training environment determine whether your product will be readily accepted and whether user personnel have the know-how to use the product.

GIVEN CURRENT PRIORITIES AND COMMAND EMPHASIS WILL THE "EXPECTED UTILITY" GAIN READY ACCEPTANCE?

GIVEN AVAILABLE "INFORMATION AND TRAINING SKILLS," DO PERSONNEL HAVE THE KNOW-HOW TO USE THE PRODUCT?

 ANALYZE FIT BETWEEN PRODUCT AND USER ORGANIZATIONS. Based on the training product analysis (Pg 9) and your knowledge of the training environment determine whether user units can manage the product overhead and regulate product use within the framework of current policies.

GIVEN CURRENT RESOURCE AVAILA-BILITY WILL "OVERHEAD" BE EASILY ACCOMMODATED IN TRAINING MANAGEMENT?

GIVEN CURRENT TRAINING GUIDANCE AND REGULATIONS, WILL PRODUCT USE BE EASILY INTEGRATED INTO TRAINING POLICY?

If additional information about the current training environment is needed, ask people in the operational units about priorities and command emphasis, and collect from these units available information on training skills, resource availability and training guidance and regulations.

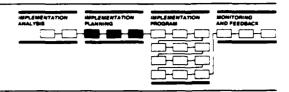
If you find any cases where the intended users do not value the product's expected utility (e.g., training benefits) or where users can not operate, afford or regulate the product, you have discovered a potential implementation problem. By continuing through this guide, you can develop a program to prevent these problems from occurring or at least to keep track of them so you will know if your product gets into trouble. Completing a worksheet such as the one shown in Figure 4 will help you to identify potential implementation problems.

FIGURE 4 WORKSHEET FOR IDENTIFYING POTENTIAL IMPLEMENTATION PROBLEMS

IDENTIFY POTENTIAL IMPLEMENTATION PROBLEMS Using results of training product analysis (pg. 9) and your knowledge of the user environment, answer these questions

ACCEPTANCE: Give current priorities and command emphasis will "expected utility" gain ready ACCEPTANCE?	KNOW-HOW: Given available "Information and training skills," do personnel have the KNOW-HOW to use the product?
□ YES □ NO	□ YES □ NO
If no, what is the problem?	If no, what special training or instruction is needed?
For training managers:	For training managers:
	For trainers:
For trainers:	
	For trainees:
	J 🖺 📒
MANAGEMENT: Given current resource availability will "overhead" be easily accommodated in training MANAGEMENT?	POLICY: Given current training guidance and regulations will "product use" be easily integrated into training POLICY?
□ YES □ NO	□ YES □ NO
If no, what additional resources do they need?	If no, cite regulations which conflict with implementation
Personnel:	envisioned.
Personner:	
Time:	
Space:	
Opace.	
1	
Funds:	
Funds:	
Funds:	
Funds: Consumables:	

BLOCK 2 IMPLEMENTATION PLANNING

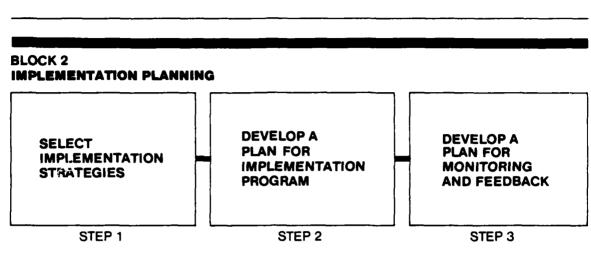


Once the need for an implementation program is identified, it is time to pian. Implementation Planning has three basis steps as shown in Figure 5.

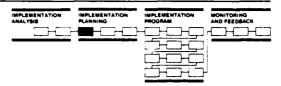
- SELECT IMPLEMENTATION
 STRATEGIES: Not all implementation
 problems can be solved in the same way.
 Different problems require different
 strategies. There are two fundamental kinds
 of strategies to choose from: enabling
 strategies, which educate and assist
 with the product use, and incentive strategies, which motivate and regulate product
 use.
- DEVELOP A PLAN FOR THE IMPLE-MENTATION PROGRAM: A good implementation plan 1) determines the sequence or stages in the proposed program, 2) specifies the actions to be taken during each stage, i.e., the execution of the program, 3) assigns responsibility for actions to developers, users and supporters of the product and 4) specifies desired outcomes or success indicators for the program.
- DEVELOP A PLAN FOR MONITORING AND FEEDBACK: Monitoring and feedback keep an implementation program on track and make timely adjustments possible. A plan for monitoring and feedback
 identifies agencies needing information about progress of the implementation program, 2) develops a schedule for monitoring and feedback and 3) identifies potential information sources and information collection strategies.

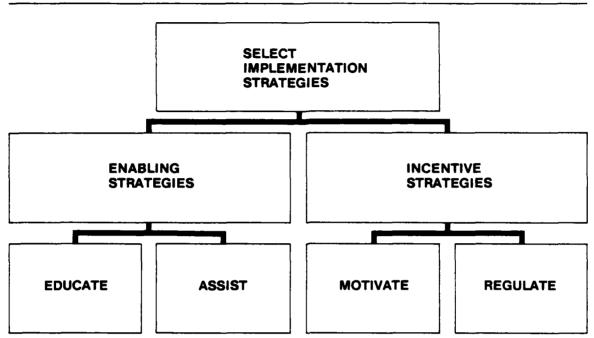
The following pages contain instructions and worksheets for developing an implementation plan for Army exportable training products.

FIGURE 5 BLOCK 2 IMPLEMENTATION PLANNING



IMPLEMENTATION PLANNING SELECT IMPLEMENTATION STRATEGIES STEP 1





There are two fundamental kinds of implementation strategies, each of which divides into two parts, as shown above.

- ENABLING STRATEGIES make a user capable of using a product
 - EDUCATE: Retrain or provide information which will enable people to use the product.
 - ASSIST: Provide any necessary resources or services which are not ordinarily available to the user organization.
- INCENTIVE STRATEGIES make personnel and units more likely to accept and use the product
 - MOTIVATE: Persuade soldiers and leaders to believe in the product and make them want to use it properly.
 - REGULATE: Control the activities of individuals and units through policies, regulations and doctrine to ensure high quality use of the product.

The right strategy depends on the type of problem you have. It doesn't help to motivate people and get them excited about a product if they lack the skills to use it. Nor is it wise to field expensive, complex technology if the Army is not going to regulate its use.

Completing a worksheet such as is shown in Figure 6 will help you to select implementation strategies.

FIGURE 6 **WORKSHEET FOR SELECTING IMPLEMENTATION STRATEGIES**

TANKS OF THE PROPERTY OF THE PARTY OF THE PA

Using the list of potential implementation problems you have identified (pg. 11), answer this question

> WHAT KIND OF IMPLEMENTATION PROBLEM HAVE YOU IDENTIFIED?

KNOW-HOW ACCEPTANCE Which solution do you think is best to ENSURE Which solution do you think is best for GAINING ACCEPTANCE OF THE PRODUCT? **ADEQUATE KNOW-HOW?** Persuade key Have MACOMs Increase product utility require use of users they with further really need the product the product development List problem List problem List problem and potential and potential solution in and potential REGULATE solution in solution in MODIFY MOTIVATE box **PRODUCT** box box

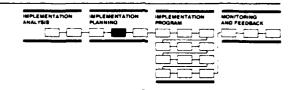
MANAGEMENT Which solution do you think is best for ENSURING ADEQUATE MANAGEMENT OF OVERHEAD?		
Reduce	Modify	Provide
resource	existing	additional
demands and management	training management	resources
rats of product	procedures	List problem and potential
List problem	List problem	solution in
and potential	and potential	ASSIST box
solution in	solution in	
MODIFY PRODUCT box	ASSIST box	

Change pro- duct to simplify user task rqts	Inform/train users in new skills	Provide special skills thru outside agencies
List problem and potential solution in MODIFY PRODUCT box	List problem and potential solution in EDUCATE box	List problem and potential solution in ASSIST box
POLICY	<u> </u>	

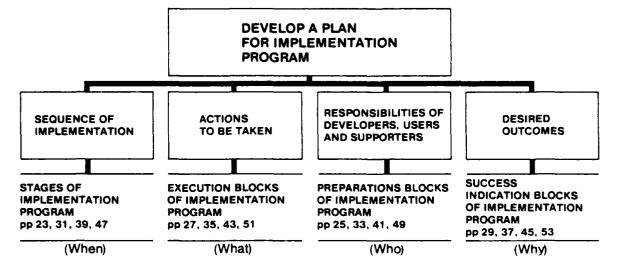
POLICY Which solution do you think is best for INTEGRATING PRODUCT INTO POLICY?		
Adjust recommended concept of use	Modify existing training policies	Develop new training guidelines
List problem and potential solution in MODIFY PRODUCT box	List problem and potential solution in REGULATE box	List problem and potential solution in REGULATE box

MODIFY PRODUCT		
EDUCATE	 	
ASSIST	 	
MOTIVATE	 	
REGULATE		

IMPLEMENTATION PLANNING DEVELOP A PLAN FOR IMPLEMENTATION PROGRAM STEP 2



Until now this guide has preceded step by step with the reader reading the left-hand page and filling out the right hand worksheet. At this point the procedure changes. Although we are still in the planning portion of the implementation process, this step consists of filling out worksheets which will be used in Block 3 (Implementation Program). Completing the worksheets according to instructions on these two pages (Pg. 16, 17) will provide you with a plan to be used during the Implementation Program (Block 3). Fill out the worksheets from pages 25-53 now and use them later.

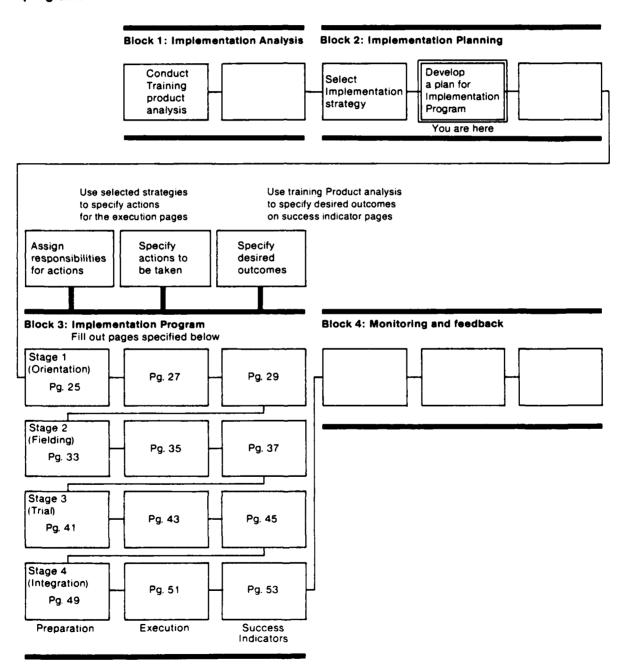


The parts of a plan for an implementation program are shown in Figure 7.

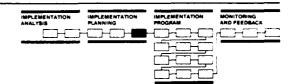
- THE SEQUENCE OF IMPLE-MENTATION: The implementation section of this guide breaks implementation into four stages: 1) Orientation the user finds out about a product which is coming;
 2) Fielding the product arrives; 3) Trial the user tries the product out; and 4) Integration the product becomes a part of Army training.
- ACTIONS TO BE TAKEN: Use the strategies selected on Page 15 to determine which actions should be taken at each of the four stages. For example, if education is a solution to your problem go to Page 27 and decide what sort of education is necessary to orient the user. Go to Page 35 to decide what sort of education is necessary in fielding. Go to Page 43 to decide what sort of education is necessary for trial. Go to Page 51 to decide what sort of education is necessary for integration.
- RESPONSIBILITIES OF DEVELOPERS, USERS AND SUPPORTERS: When you know what actions to take at each stage, determine which agencies should make the necessary preparation and take that action. For example, Page 25 provides a worksheet for planning roles and responsibilities during the Orientation Stage. Page 33 is for Fielding, Page 41 for Trial, and Page 49 for Integration.
- DESIRED OUTCOMES: Use the results of the training product analysis (Page 9) to specify the desired outcomes which will indicate success at each stage in the Implementation Program. Page 29 provides a worksheet for specifying outcomes for the Orientation Stage. Page 37 is for Fielding, Page 45 for Trial, and Page 53 for Integration.

FIGURE 7 DEVELOP A PLAN FOR THE IMPLEMENTATION PROGRAM

Use appropriate pages of this guide to translate the product analysis (pg. 9) and the selected implementation strategy(ies) (pg. 15) into a plan for the implementation program.



IMPLEMENTATION PLANNING DEVELOP A PLAN FOR MONITORING AND FEEDBACK STEP 3



DEVELOP A PLAN FOR MONITORING AND FEEDBACK

IDENTIFY AGENCIES
NEEDING INFORMATION
ABOUT PROGRESS OF
IMPLEMENTATION
PROGRAM

DEVELOP SCHEDULE FOR MONITORING AND FEEDBACK IDENTIFY POTENTIAL INFORMATION SOURCES AND INFORMATION COLLECTION STRATEGIES

The last step before executing an implementation program is to develop a plan for monitoring and feedback which will keep track of progress toward implementation. Using the implementation program plan on Pages 25 to 53 take the following three actions:

- IDENTIFY AGENCIES NEEDING
 INFORMATION ABOUT PROGRESS
 OF THE IMPLEMENTATION PROGRAM.
 Establish channels of communication with
 the agencies identified in the preparation
 steps (Pg. 25, 33, 41, 49) of the implementation program. These agencies will need
 feedback to coordinate and fine-tune their
 plans TRADOC agencies, such as the
 Infantry and Armor schools, will need feedback on training support, DARCOM/
 US Army Armament Materiel Readiness
 Command (ARRCOM) agencies will need
 materiel support information, and so on.
- DEVELOPA SCHEDULE FOR MONITOR-ING AND FEEDBACK. Set dates for obtaining information about each step in the implementation program. The schedule will vary with the product, but information needs to be collected in time to guide the action of concerned agencies at each stage of implementation.

IDENTIFY POTENTIAL INFORMATION AND INFORMATION COLLECTION STRATEGIES. Use all the steps in the implementation program — Preparation, Execution and Success Indicators — to specify essential elements of analysis (EEA) and identify possible data sources. Select appropriate data sources from the agencies indicated for action.

With a monitoring and feedback plan which follows the implementation program closely, you can be sure of detecting any emerging problems in time to take corrective action.

Completing a worksheet such as the one shown in Figure 8 will help you to develop a plan for monitoring and feedback.

FIGURE 8 WORKSHEET FOR DEVELOPING A PLAN FOR MONITORING AND FEEDBACK

DEVELOP A PLAN FOR MONITORING AND FEEDBACK

Using the implementation program plan (Pgs. 25 to 53) do these three things

Identify agencies needing information about progress of the implementation program

Establish channels of communication with agencies identified in preparation phase (Pgs. 25, 33, 41, 49) of implementation program.

TRADOC agencies:

DARCOM/ ARRCOM agencies: Operational MACOM agencies:

USAIS USAARMS

PM TRADE, IF appropriate

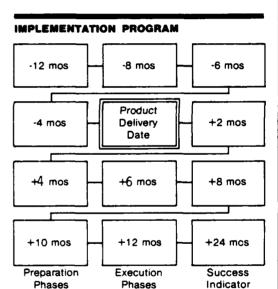
Project Office, if any

Identify potential information sources and information collection strategies

Use all phases in the implementation program plan to specify essential elements of analysis (EEA) and to identify possible data sources. Select appropriate methods for obtaining the data. For example, data collection may require soliciting selected documents, surveying user opinions, reviewing routinely recorded training information (e.g., maintenance records or readiness reports), and observing in the field. A possible format for data recording is shown on page 57 of this guide.

Develop schedule for monitoring and feedback

Set dates for obtaining information about each phase in the implementation program. For example, you might anchor the monitoring schedule at product delivery as shown below:



Phases

BLOCK 3 THE IMPLEMENTATION PROGRAM



The Implementation Program tracks a product from its production and deployment to obsolescence. The program is composed of four stages, and each stage has three phases, as is shown in Figure 9.

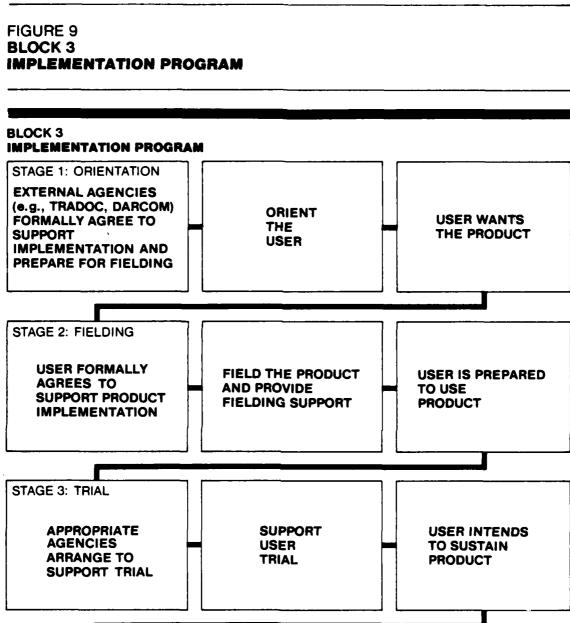
The stages consist of:

- ORIENTATION: The user learns about the product which is coming.
- FIELDING: The product is delivered and the user prepares to implement.
- TRIAL: Users receive support from external agencies (e.g. TRADOC, DARCOM) in using the product.
- INTEGRATION: The product becomes a standard part of training in units.

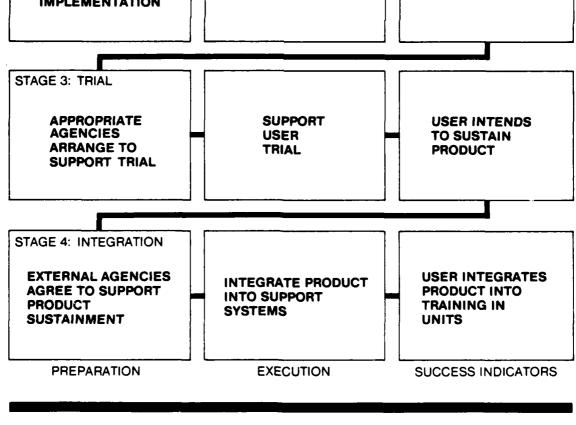
The three phases in each stage are:

- PREPARATION: Agreements are reached and arrangements are made to introduce the product, provide implementation support and ensure that the product gets integrated.
- EXECUTION: Actions are carried out by agencies external to the receiving unit to introduce the product and support its use.
- SUCCESS INDICATORS: Steps are taken by users to learn about the product, to use it, and finally to integrate it into their philosophy and training practice.

By now you have filled out all the worksheets for the Implementation Program (Worksheets from pages 25-53, completed during step 2 of Implementation Planning). These sheets can now be used to guide the implementation effort.



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IMPLEMENTATION PROGRAM ORIENTATION STAGE 1

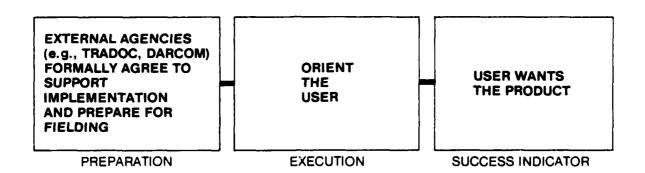
IMPLEMENTATION	IMPLEMENTATION	IMPLEMENTATION	MONITORING
ANALYSIS	PLANNING	PROGRAM	AND PREDBACK
			

The Orientation Stage begins when a product reaches the production and deployment phase in the Army's Life Cycle System Management Model (LCSMM). At this point receiving units need to be informed about the new product which is coming. Orientation has three phases shown in Figure 10:

- PREPARATION: External Agencies
 Formally Agree to Support Implementa tion and Prepare for Fielding. The
 appropriate agencies need to develop a
 basis of issue plan, delivery schedules for
 the product and an implementation
 support plan. Then all the external agencies
 involved in implementation need to agree
 to the schedules and implementation plan.
- EXECUTION: Orient the User. Successful
 orientation communicates the product's
 expected utility, informs users about the
 product's overhead and skill requirements,
 provides technical and financial aid (if
 necessary) to prepare user for the product
 and coordinates the user's implementation
 preparations.
- SUCCESS INDICATOR: User Wants the Product. A user has been successfully oriented when key individuals in the chain of command understand and want the product and when the user organization has developed a utilization plan.

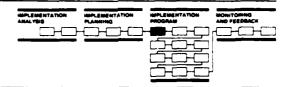
Because lead time is always a scarce commodity, Orientation is frequently overlooked or only partially done. Orientation is a real opportunity to get a jump on implementation and reduce a lot of misunderstanding and problems later on.





ORIENTATION

STAGE 1 PREPARATION PHASE



EXTERNAL AGENCIES (e.g., TRADOC, **DARCOM) FORMALLY AGREE TO** SUPPORT IMPLEMENTATION AND PREPARE FOR FIELDING.

EXTERNAL AGENCIES FORMALLY AGREE TO FIELDING AND **IMPLEMENTATION** SUPPORT PLANS

APPROPRIATE AGENCIES **DEVELOP BASIS OF** ISSUE PLAN, DELIVERY SCHEDULES AND IMPLEMENTATION SUPPORT PLAN

Before users can be alerted that a product is on its way external agencies must agree to support implementation and prepare for fielding. Orientation will be much more successful if developers ensure that the following steps are taken before contacting the users:

EXTERNAL AGENCIES FORMALLY

AGREE TO FIELDING AND IMPLEMENTATION SUPPORT PLANS. Agencies involved in implementation (e.g., TRADOC, DARCOM, Operational MACOMs) should agree up-front on everyone's role throughout the implementation program. Frequently agreements between external support agencies do not extend support is overlooked. It is harder to get people to commit additional support for a

beyond fielding the product, and long-term product after it reaches the field. Formal agreements also provide institutional memory that will help the implementation program weather personnel turbulance within the agencies involved in implementing and supporting the product.

APPROPRIATE AGENCIES DEVELOP A BASIS OF ISSUE PLAN, DELIVERY SCHEDULES AND AN IMPLEMENTA-TION SUPPORT PLAN. Users can begin their planning when they have a realistic delivery date and have some idea what the implementation program is going to look like. This information should be available to the user in time to make necessary arrangements, but should not arrive so early that no action is required for weeks or months.

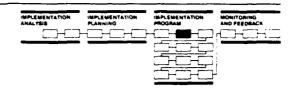
The information which you developed for the worksheet shown in Figure 11 can be used to guide this phase of Orientation.

FIGURE 11 WORKSHEET FOR PLANNING AND GUIDING PREPARATION PHASE STAGE 1: ORIENTATION

EXTERNAL AGENCIES
(e.g., TRADOC, DARCOM)
FORMALLY AGREE TO
SUPPORT IMPLEMENTATION
AND PREPARE FOR FIFE DING

AND PREPAI	RE FOR FIELDING
External agencies formally agree to fielding and implementation support plans	Appropriate agencies develop basis of issue plan, delivery schedules and implementation support plan
TRADO	C Agencies:
DARCOM/AR	RCOM Agencies:
User MAC	OM Agencies:
	J [
Fiel	d Users:

ORIENTATION STAGE 1 EXECUTION PHASE



ORIENT THE USER

MOTIVATE: COMMUNICATE PRODUCT'S EXPECTED UTILITY EDUCATE:
INFORM
USERS ABOUT
PRODUCT'S
OVERHEAD
AND SKILL
REQUIREMENTS

ASSIST:
PROVIDE
EXPERTISE TO
HELP USER TO
PLAN FOR
IMPLEMENTATION

REGULATE: COORDINATE USERS' PARTICIPATION IN ORIENTATION

The orientation effort gets the user ready for the product Each involved agency (e.g., TRADOC, DARCOM, ARRCOM) will have different messages to communicate such as training concepts, material fielding plans or implementation support agreements. Whatever your message you need to:

- MOTIVATE: Communicate product's expected utility to users. Commanders and other key individuals must want to receive the product. This can be accomplished through such vehicles as demonstrations, command briefings, video-tapes and pamphlets.
- EDUCATE: Inform users about product's overhead and skill requirements.
 Depending on the product, this education may require briefings, conferences, "lookahead" letters, phone calls, etc.
- ASSIST: Provide expertise to help user plan for implementation. Send documentation or product experts to assist users in identifying and analyzing the product's requirements and developing local implementation plans.
- REGULATE: Coordinate users' participation in orientation. Establish knowledgeable points of contact, and check to see that your orientation information is being widely disseminated. Ensure that user commands direct attendance of appropriate personnel at orientation meetings and product demonstrations.

Information which you developed for the worksheet shown in Figure 12 can be used to guide the execution phase of Orientation.

FIGURE 12 WORKSHEET FOR PLANNING AND GUIDING EXECUTION PHASE

STAGE 1: ORIENTATION

ORIENT THE USER

MOTIVATE: Communicate product's expected utility	EDUCATE: Inform users about product's overhead & skill requirements	ASSIST: Provide expertise to help users plan for implementation	REGULATE: Coordinate users' parti- cipation in orientation
	TRADOC role: Communant plan for hand-off	nicates training concepts	
	DARCOW/ARROW		
	for training materiel, if	ole: Communicates plans any	
	User MACOM role: Cor	mmunicates plans and	
	tentative schedule for i support	implementation	

ORIENTATION STAGE 1: SUCCESS INDICATOR PHASE USER WANTS THE

PRODUCT

KEY INDIVIDUALS IN CHAIN OF COMMAND UNDER-STAND AND WANT PRODUCT

USER ORGANIZATION HAS A UTILIZATION PLAN

ACCEPTANCE: USERS PERCEIVE A NEED FOR PRODUCT KNOW-HOW:
USERS ARE AWARE
OF PRODUCT'S
OVERHEAD AND SKILL
REQUIREMENTS

MANAGEMENT: USER ORGANIZATION HAS PLAN TO MANAGE PRODUCT'S OVERHEAD POLICY:
USER'S IMPLEMENTATION CONCEPT IS IN
ACCORD WITH
DEVELOPER'S CONCEPT
OF USE

Orientation is successful if the user wants the product Success is indicated when key individuals in the chain of command understand and want the product and when the user organization has a utilization plan.

KEY INDIVIDUALS are successfully oriented when they:

- PERCEIVE A NEED FOR THE PRODUCT
- ARE AWARE OF THE PRODUCTS OVER-HEAD AND SKILL REQUIREMENTS

The **USER ORGANIZATION** is oriented when it

- HAS A PLAN TO MANAGE THE PRODUCTS OVERHEAD
- HAS AN IMPLEMENTATION CONCEPT IN ACCORD WITH THE DEVELOPER'S CONCEPT OF USE

If the above conditions are met, the user is ready to receive the product. This readiness is perishable and will degrade quickly if there are too many delays between orientation and fielding.

Information which you developed for the worksheet shown in Figure 13 establishes criteria for successful orientation.

FIGURE 13 WORKSHEET FOR ESTABLISHING SUCCESS INDICATORS

STAGE 1: ORIENTATION

USER WANTS THE PRODUCT

\
KNOW-HOW: Users are aware of product's overhead and skill requirements
Training managers:
• Trainers:
Maintenance personnel:
']
POLICY: Users implementation concept is in accord with developer's concept of use
Utilization concept:
Enforcement concept:

FIELDING STAGE 2

IMPLEMENTATION PLANNING	IMPLEMENTATION PROGRAM	MONITORING AND FEEDBACK
		<u>~□-□-</u> [;

The Fielding stage includes all the efforts to deliver equipment, documentation, training and logistic support. As was the case for Orientation, Fielding has three phases as is shown in Figure 14.

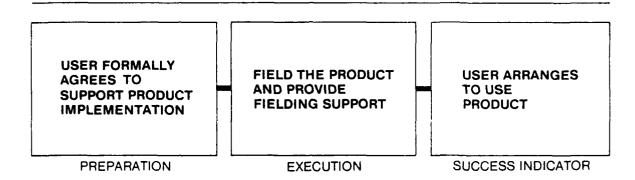
- PREPARATION: User formally agrees to support product implementation. In this phase agreements and plans developed during Orientation are formalized. The user signs fielding agreements and memoranda of understanding regarding external implementation support. The user prepares facilities and personnel as necessary to receive the product.
- EXECUTION: Field the product and provide fielding support. In addition to delivering any hardware or software, a successful fielding program publicizes demonstrations of the product's utility, (e.g., Operational Test (OT) results), teaches users how to use the product, supports fielding with outside resources, and reviews local implementation plans.

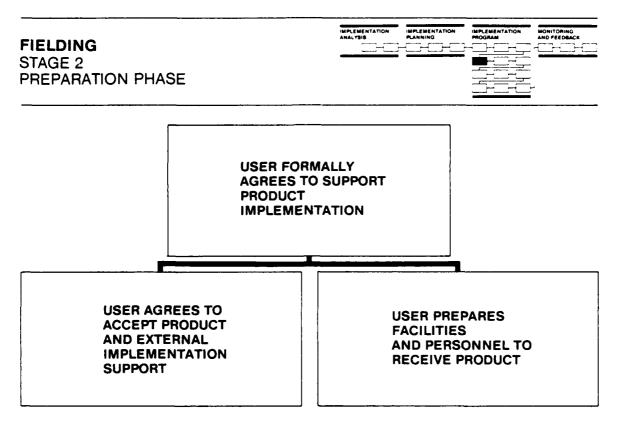
SUCCESS INDICATOR: User arranges
to use the product. A product has been
successfully fielded when the user intends
to use the product and has learned how to
use it, and when the user organization
has assigned roles and resources for initial
use and has established implementation
schedules.

Fielding is more than product delivery.

Successful implementation requires that every effort be made to see that receipt and early use of the product puts no unnecessary burden on the user.







The fielding (and later implementation) efforts will be more successful if the user formally agrees to support product implementation in advance of actual fielding.

• USER AGREES TO ACCEPT THE PRODUCT AND THE EXTERNAL IMPLEMENTATION SUPPORT. Users make a formal commitment to provide the resources necessary to receive the product and participate in the implementation program. Without formal negotiation and agreement in advance of delivery, you may discover too late that users have plans for the product which differ greatly from yours or that the pressures of the moment make the users want to cut back on the support that is needed to carry out the implementation program. USER PREPARES FACILITIES AND PERSONNEL TO RECEIVE PRODUCT.

Any special preparation of storage or classroom facilities, equipment or personnel should be arranged and checked on in advance of fielding.

Getting user agreements to support product implementation can reduce many headaches in the field. It is similar to making reservations in advance, so there are no surprises for either the user or the fielding team.

The information which you developed for the worksheet shown in Figure 15 can be used to guide this phase of Fielding.

FIGURE 15 WORKSHEET FOR PLANNING AND GUIDING PREPARATION PHASE STAGE 2: FIELDING

USER FORMALLY AGREES TO SUP PORT PRODUCT IMPLEMENTATION User agrees to accept product and external User prepares facilities and personnel to receive implementation support product With TRADOC Agencies: With DARCOM/ARRCOM Agencies: With User MACOM Agencies:

FIELDING STAGE 2 **EXECUTION PHASE** FIELD THE PRODUCT **AND PROVIDE** FIELDING SUPPORT MOTIVATE: **EDUCATE:** ASSIST: REGULATE: **ARRANGE DEMON-TEACH USERS HOW TO** SUPPORT FIELDING **REVIEW LOCAL** STRATIONS OF **USE PRODUCT** WITH OUTSIDE IMPLEMENTATION PRODUCT'S UTILITY RESOURCES PLANS **AND PUBLICIZE FAVORABLE RESULTS** (e.g., OT RESULTS)

The fielding effort gets the user set to use the product. In addition to product delivery, TRADOC may hand-off a complete training support package, DARCOM may provide new equipment training and equipment assistance, and User MACOM's may be involved in coordinating and monitoring implementation.

- MOTIVATE: Arrange demonstrations of product utility and publicize favorable results. Show users what the product can do for them so that they will become motivated to use the product themselves.
- EDUCATE: Teach users how to use product. Through Mobile Training Teams, workshops or assisted on-the-job-training, ensure that personnel have mastered the skills and required knowledge to enable proper use of the product.
- ASSIST: Support fielding with outside resources. Provide technical and logistic support and training assistance to help the user receive the product and make arrangements for using it
- REGULATE: Review local implementation plans. Make sure that the receiving unit has published directives which assign roles and resources for initial use of the product and establish schedule for use.

The information which you develop for the worksheet shown in Figure 16 can be used to guide the execution phase of Fielding.

FIGURE 16 WORKSHEET FOR PLANNING AND GUIDING THE EXECUTION PHASE STAGE 2: FIELDING

FIELD THE PRODUCT AND PROVIDE FIELDING SUPPORT

MOTIVATE: Arrange demonstrations of product's utility and publicize favorable results (e.g. OT or validation test results)	EDUCATE: Teach users how to use product	ASSIST: Support fielding with outside resources	REGULATE: Review local implementation plans
	TRAD	OC role:	
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	DARCOM/	ARRCOM role:	
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			<u> </u>
	User MA	COM role:	
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FIELDING STAGE 2 SUCCESS INDICATOR PHASE

MPLEMENTATION IMPLEMENTATION MAPLEMENTATION SONITORING AND FEEDBACK

USER IS PREPARED TO USE PRODUCT

INDIVIDUAL USERS CAN AND WILL TRY PRODUCT USER ORGANIZATION HAS A UTILIZATION PRI RAM

ACCEPTANCE: USERS INTEND TO USE PRODUCT

KNOW-HOW: USERS HAVE LEARNED HOW TO USE PRODUCT MANAGEMENT: USER ORGANIZATION HAS ASSIGNED ROLES AND RESOURCES FOR INITIAL USE OF PRODUCT POLICY: USER ORGANIZATION HAS ESTABLISHED IMPLEMENTATION SCHEDULES

Fielding is successful when the user is prepared to use the product. Success is indicated if individuals user can and will try the product and when the user organization has a utilization program.

Individual users are successfully oriented when they:

- . INTEND TO USE THE PRODUCT
- HAVE LEARNED HOW TO USE THE PRODUCT

The **user organization** is successfully oriented when it

- HAS ASSIGNED ROLES AND RESOURCES FOR INITIAL USE OF PRODUCT
- HAS ESTABLISHED IMPLEMENTATION SCHEDULES

Successful fielding means more than delivering the product; it means preparing personnel and units to continue using the product on their own, without the extra support that often accompanies fielding efforts.

The information which you developed for the work sheet shown is Figure 17 establishes the criteria for success in the fielding stage.

FIGURE 17 WORKSHEET FOR ESTABLISHING SUCCESS INDICATORS STAGE 2: FIELDING

	USER IS TO USE I		REPARED ODUCT]
ACCEPTANCE: Users intend to use produ	ıct	+	KNOW-HOW: Users have learned ho	ow to use product
1. Training managers:			Training managers: Trainers:	
2. Trainers:			3. Trainees:	
MANAGEMENT: User organization has ass resources for initial use o	signed roles and f product	L	POLICY: User organization has implementation sched	
1. To use:			1. Use product	
2. To control and maintain:			2. Evaluate product:	

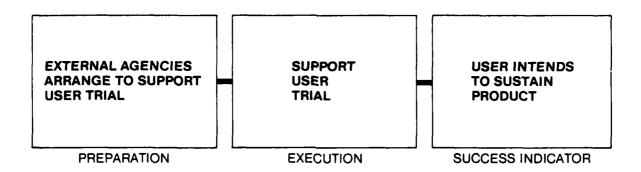
TRIAL STAGE 3

The Trial Stage begins when users start using the product on their own. The stage ends when the users have dealt with all the start-up problems and have decided to institutionalize use of the product or to discontinue use. Trial has three phases as is shown in Figure 18.

- PREPARATION: External agencies arrange to support user trial. If external support must be continued past fielding, appropriate agencies must prepare materials, programs, and procedures to support user trial. Appropriate agencies must also develop product evaluation plans to track product utilization and effectiveness.
- EXECUTION: Support user trial. A
 successful trial effort solicits and publicizes
 product success stories, obtains and
 communicates lessons-learned about using
 the product and provides resources and
 technical assistance to support initial use
 of the product. Evaluation teams will also
 monitor use and evaluate effectiveness of
 the product during the trial stage.
- SUCCESS INDICATOR: User intends to sustain the product. A product has had a successful trial when individual users are satisfied with the product and when the user organization has developed a sustainment program.

Most product die in the trial stage if they are going to die at all. Users either never begin using the product or are overwhelmed with start-up problems for which they lack the personnel, time or resources to solve.





TRIAL STAGE 3 PREPARATION PHASE

IMPLEMENTATION MPLEMENTATION IMPLEMENTATION MONITORING AND PEOBACK

APPROPRIATE AGENCIES ARRANGE TO SUPPORT TRIAL

USERS AGREE TO SUPPORT PRODUCT EVALUATION EXTERNAL AGENCIES ARRANGE TO SUPPORT USER TRIAL AND EVALUATE PRODUCT

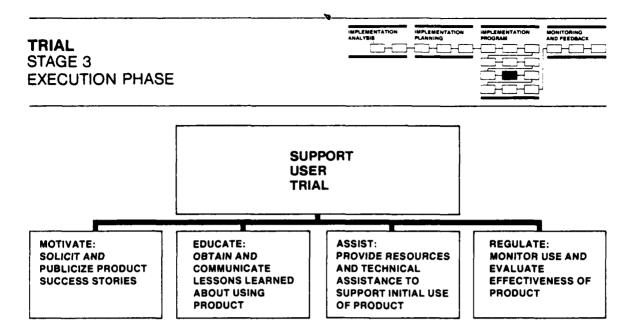
Most products succeed or fail in the Trial Stage. Products always cause more problems than anyone expects (that's Murphy's Law), and users may simply give up on a product when they encounter those unexpected problems. To forestall that possibility, all appropriate agencies should be prepared to take steps to ensure that the product gets a fair trial in the user environment

- USERS AGREE TO SUPPORT PRODUCT EVALUATION. Users should be prepared to provide feedback on problems as well as successes they are having during early use of the product. This feedback will help external agencies to adjust implementation support as necessary and will provide input to the user's own decisions about sustaining or discounting use of the product.
- EXTERNAL AGENCIES ARRANGE TO SUPPORT USER TRIAL AND EVALUATE PRODUCT. In order to make timely delivery of implementation support, external agencies must prepare materials and assistance programs well in advance of the time they are needed in the user environment. In addition, plans must be developed for obtaining data from the user to evaluate the product and contribute to decisions about life-cycle support.

This information which you developed for the worksheet shown in Figure 19 can be used to guide this phase of the Trial Stage.

FIGURE 19 WORKSHEET FOR PLANNING AND GUIDING PREPARATION PHASE STAGE 3: TRIAL

APPROPRIATE AGENCIES ARRANGE TO SUPPORT USER TRIAL				
SERS AGREE TO SUPPORT PRODUCT	EXTERNAL AGENCIES ARRANGE TO SUPPORT USER TRIAL AND EVALUATE PRODUCT			
TR/	C Agencies:			
DARCON	RCOM Agencies:	_		
DARCO	THOOM Agencies.			
liser	OM Agencies:			
000.]			
	J [d Users:			



The effort to support user trials is intended to ensure that use of the product is a go in the operational environment. The major complaint of receiving units is that products get dumped on them. Developers arrive with much fanfare, field a product and disappear, leaving the user alone to solve all the start-up problems. To counter these problems and to prepare the user to sustain the product, provide support to user trial.

- MOTIVATE: Solicit and publicize any product success stories. Tell people when their peers are getting better ratings, using less resources or getting more training done by using the product.
- EDUCATE: Obtain and communicate lessons learned about using product.
 Circulate commanders' comments, user's guides, etc. so that all users benefit from the experiences others are having with the product.
- ASSIST: Provide resources and technical assistance to support initial use of product. This assistance will help users to solve start-up problems. Depending on the product, this could be ammunition, technical experts, contract maintenance, etc., but do not over commit yourself or raise false expectations among users.

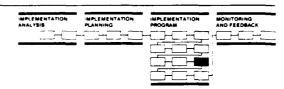
REGULATE: Monitor use and evaluate
effectiveness of product. Ensure that
the user command and the external
evaluation agencies are directed to report
data concerning product use. The data
should represent frequency and quality of
use, resources consumed, and training
effectiveness.

The information which you developed for the worksheet shown in Figure 20 can be used to guide the Execution phase of the Trial Stage.

FIGURE 20 WORKSHEET FOR PLANNING AND GUIDING THE EXECUTION PHASE STAGE 3: TRIAL

SUPPORT USER TRIAL MOTIVATE: **EDUCATE:** ASSIST: **REGULATE:** Solicit and publicize Obtain and communicate Provide resources and Monitor use and evaluate product success stories lessons learned about technical assistance to effectiveness of product using product support initial use of product TRADOC role: Monitor, evaluate, and provide feedback about use of product DARCOM/ARRCOM role: Provide logistics assistance as required User MACOM role: Provide guidance and assistance to field users, as necessary





USER INTENDS TO SUSTAIN PRODUCT

INDIVIDUAL USERS ARE SATISFIED WITH PRODUCT

USER ORGANIZATION HAS SUSTAINMENT PROGRAM

ACCEPTANCE: USERS LIKE USING PRODUCT KNOW-HOW: KEY USERS ARE EXPERIENCED IN PRODUCT USE MANAGEMENT: UNIT COMMANDERS HAVE MADE DECISIONS TO SUSTAIN-USE OF PRODUCT POLICY: USER ORGANIZATION HAS PRODUCT UTILIZATION POLICY

Trial is a success if the user intends to sustain the product Success is indicated if individuals are satisfied with the product and when the user organization has a sustainment program.

Individual users have had a successful trial if they:

- . LIKE THE PRODUCT
- ARE EXPERIENCED IN PRODUCT USE

The **user organization** has given the product a successful trial if:

- UNIT COMMANDERS HAVE MADE DECISIONS TO SUSTAIN THE USE OF THE PRODUCT
- THE USER ORGANIZATION HAS A PRODUCT UTILIZATION POLICY

By carrying the implementation program through initial user trials, you can help ensure that your product will not be one of those which end up on storage shelves because it proves too difficult or troublesome to use.

The information which you developed for the worksheet shown in Figure 21 establishes criteria for success during the Trial Stage.

FIGURE 21 WORKSHEET

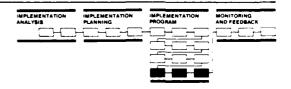
WORKSHEET FOR ESTABLISHING SUCCESS INDICATORS

STAGE 3: TRIAL

USER INTENDS TO SUSTAIN PRODUCT

	, I
ACCEPTANCE: Users like using the product	KNOW-HOW: Key users are experienced in product use
1. Training managers:	1. Training managers:
2. Trainers:	2. Trainers:
3. Trainees:	3. Trainees:
MANAGEMENT: Unit commanders have made decisions to sustain use of product	POLICY: User organization has product utilization policy
Administrative and logistic levels:	1. To use:
2. Operational user level:	2. To monitor use:

INTEGRATION STAGE 4



The Integration stage begins when users decide to make sustained use of the product. Integration has three phases as is shown in Figure 22.

- PREPARATION: External support agencies agree to support product sustainment. If the product is to become a permanent part of training in units, external support, agencies need to agree to integrate the product into training and maintenance literature, the schools, procurement programs, etc.
- EXECUTION: Integrate the product into external support systems. A successful integration effort will include product information in all relevant training and maintenance literature, integrate the product into TRADOC-conducted resident training and integrate product support into routine procedures for supporting operational units.

 SUCCESS INDICATOR: User integrates product into training in units. A product is successfully integrated when individuals and or units make routine use of the product, and when the user organizations integrate the product into routine training practices.

The integration of the product into training continues with product modifications, updates in support, documentation, etc. throughout the life-cycle.

FIGURE 22 INTEGRATION STAGE 4

EXTERNAL AGENCIES
AGREE TO SUPPORT
PRODUCT
SUSTAINMENT

INTEGRATE PRODUCT
INTO SUPPORT
SYSTEMS

USER INTEGRATES
PRODUCT INTO
TRAINING IN
UNITS

PREPARATION

EXECUTION

SUCCESS INDICATOR

INTEGRATION STAGE 4 PREPARATION PHASE



EXTERNAL SUPPORT AGENCIES AGREE TO SUPPORT PRODUCT SUSTAINMENT

EXTERNAL AGENCIES
AGREE TO INTEGRATE
PRODUCT INTO
TRAINING AND
MAINTENANCE
LITERATURE AND
TRAINING SUPPORT
PROCEDURES

EXTERNAL SUPPORT AGENCIES PREPARE TO DELIVER LONG-TERM SUPPORT TO USER UNITS

Even after a successful trial, a new product may cease to be used if its use is in conflict with other elements of the training system and the training support system of the Army. These conflicts will be minimized when external support agencies make formal agreements to support product sustainment.

- EXTERNAL AGENCIES AGREE TO INTEGRATE PRODUCT INTO TRAINING AND MAINTENANCE LITERATURE AND TRAINING SUPPORT PROCEDURES. A product may be overlooked or neglected unless people can quickly and easily find out how to use, maintain and support it. Integrating the product into the literature insures that use and sustainment guidance is widely known and easily accessible.
- EXTERNAL SUPPORT AGENCIES
 PREPARE TO DELIVERY LONG-TERM
 SUPPORT TO USER UNITS. If units
 cannot support a product given their
 available resources, they must have some
 help. This assistance should be pro grammed as soon as user trials have
 indicated what long-term support is required.

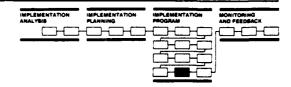
The information which you developed for the worksheet shown in Figure 23 can be used to guide this phase of the Integration Stage.

FIGURE 23 **WORKSHEET FOR PLANNING AND GUIDING THE PREPARATION PHASE STAGE 4: INTEGRATION**

EXTERNAL SUPPORT AGENCIES

AGREE TO PRODUCT	SUPP	ORT	
External support agencies agree to integrate	7		1
product into training and maintenance literature and training support procedures	b ,	External support agence long-term support to us	ies prepare to deliver er units
TRADOC Agencies:			
DARCOM/ARRCOM Agencies:			····
DARCOM/ARROOM AGBINISA			
		<u>.</u>	
User MACOM Agencies:			
i			

INTEGRATION STAGE 4 EXECUTION STAGE



INTEGRATE PRODUCT INTO EXTERNAL SUPPORT SYSTEMS

MOTIVATE:
INCLUDE PRODUCT
INFORMATION IN ALL
RELEVANT TRAINING
AND MAINTENANCE
LITERATURE

EDUCATE:
INTEGRATE PRODUCT
INTO TRADOCCONDUCTED RESIDENT
TRAINING AS
APPROPRIATE

ASSIST:
INTEGRATE PRODUCT
SUPPORT INTO
ROUTINE
PROCEDURES FOR
SUPPORTING
OPERATIONAL UNITS

REGULATE:
ARMY AND MACOM
REGULATIONS,
ESTABLISH
GUIDELINES FOR
PRODUCT USE

If the product is to become a standard part of US Army training then it must be integrated into the support systems of agencies external to operational units (TRADOC, ARRCOM. operational MACOMs). Otherwise product use may wither away for lack of resources or incentive.

- MOTIVATE: Include product information in all relevant training and maintenance literature. If soldiers and leaders are constantly confronted with information about the product, they will come to see it as the way to train.
- EDUCATE: Integrate product into TRADOC-conducted resident training as appropriate. Ensure that trainers and trainees go to their units prepared to use the product and, when appropriate, provide refresher training in units.
- ASSIST: Integrate product support into routine procedures for supporting operational units. Ensure that amounts of ammunition, supplies and spare parts required by the product are procured and made available to units on a routine basis.
- REGULATE: Army and MACOM regulations establish guidelines for product use. Formal inspection procedures should include checks on product usage.

The information which you developed for the worksheet shown in Figure 24 can be used to guide the Execution Phase of the Integration Stage.

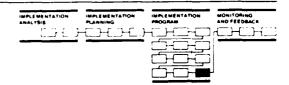
FIGURE 24 WORKSHEET FOR PLANNING AND GUIDING THE EXECUTION PHASE

STAGE 4: INTEGRATION

INTEGRATE PRODUCT INTO EXTERNAL SUPPORT SYSTEMS

			
MOTIVATE: Include product infor- mation in all relevant training and maintenance literature	EDUCATE: Integrate product into TRADOC-conducted resident training as appropriate	ASSIST: Integrate product support into routine procedures for supporting operational units	REGULATE: Army and MACOM regulations establish guideline for product use
	TRADOC role: Integrate produc	t into training support mission	
DARCOM	ARRCOM role: Integrate product	into logistic support and acquiri	eition systems
DAI TOON,	AMACOM Tole: Integrate product	The logistic support and acqui	sition systems
User MA	COM role: Integrate product into	fiscal and operational support	systems
7	The second secon	The second secon	5,5105
	DA role: Integrate product into tr	aining policies and regulations	
	•		

INTEGRATION STAGE 4: SUCCESS INDICATOR PHASE



USER INTEGRATES PRODUCT INTO TRAINING IN UNITS

INDIVIDUAL USERS MAKE ROUTINE USE OF PRODUCT

USER ORGANIZATION INTEGRATES PRODUCT INTO TRAINING PRACTICES

ACCEPTANCE: PERSONNEL ACCEPT PRODUCT AS A NORMAL PART OF TRAINING KNOW-HOW PERSONNEL KNOW-HOW TO USE PRODUCT IN ROUTINE TRAINING MANAGEMENT:
PROCEDURES FOR
MANAGING PRODUCT
OVERHEAD ARE
INTEGRATED INTO
STANDARD MANAGEMENT PROCEDURES

POLICY: USER ORGANIZATION ENFORCES UTILIZATION POLICY

Integration of the product into Army training is successful when Individuals make routine use of the product and when the user organization integrates the product in training practices.

Individual Users have successfully integrated the product into training when they:

- ACCEPT PRODUCT AS A NORMAL PART OF TRAINING
- HAVE THE KNOW-HOW TO USE THE PRODUCT IN ROUTINE TRAINING

The **User Organization** has successfully integrated the product into training when:

- PROCEDURES FOR MANAGING PRODUCT OVERHEAD ARE INTEGRATED INTO STANDARD MANAGEMENT PROCEDURES
- IT ENFORCES ITS UTILIZATION POLICY

The indicators of success in Stage 4 (Integration) represent solution of implementation problems — Acceptance, Know-How, Management and Policy — diagnosed in Step 2 of the Implementation Analysis. These indicators, if monitored at intervals, will track long-term support needs and product improvement which result from the regular use of the product.

The information which you developed for the worksheet shown in Figure 25 establishes criteria for successful integration of the product into Army training procedures.

FIGURE 25 WORKSHEET FOR ESTABLISHING SUCCESS INDICATORS

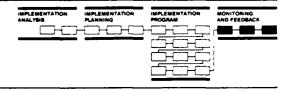
STAGE 4: INTEGRATION

These indicators should represent the product being used as intended in the user environment.

USER INTEGRATES PRODUCT INTO TRAINING IN UNITS

sed as intended in the ser environment.	INTO TRAINI	NG	IN UNITS
ACCEPTANCE: Personnel accept product as a r training	ormal part of		KNOW-HOW: Personnel know-how to use product in routine training
1. Training managers:			Informed training managers:
2. Trainers:			2. Prepared trainers:
3. Trainees:			3. Prepare trainees:
MANAGEMENT: Procedures for managing produintegrated into standard manage			POLICY: Utilization policy is enforced
To manage overhead for using sumables, time, ranges, etc.):	product (e.g., con-		Frequency of use prescribed:
			2. Quality of use attained:
To manage overhead for controll product:	ing and maintaining		3. Frequency of inspection:

BLOCK 4 MONITORING AND FEEDBACK



The overview map shown at the top of this page has been used to track progress through this guide. It shows monitoring and feedback as occurring after everything has been done. The fact is, however, that monitoring and feedback occurs at each phase of every stage in the Implementation Program. The plan for monitoring and feedback was developed during Step 3 of Implementation Planning (Block 2). The steps described on the following pages of this guide are for collecting the feedback information during each phase of the Implementation Program (Block 3), diagnosing problems, deciding who should solve them, and then feeding relevant information back to appropriate action agencies.

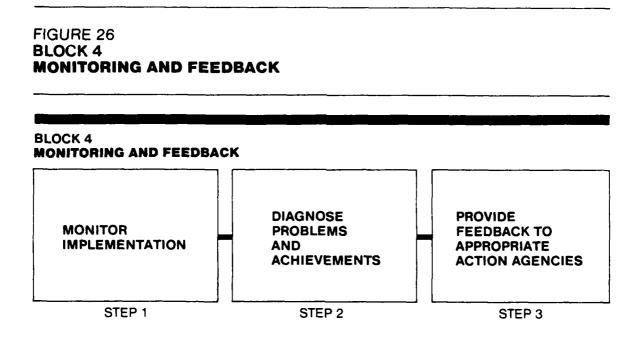
The purpose of Monitoring and Feedback is to see that things are being done right, that the right things are being done, and that the right people find out about it. There are three steps in monitoring and feedback as shown in Figure 26.

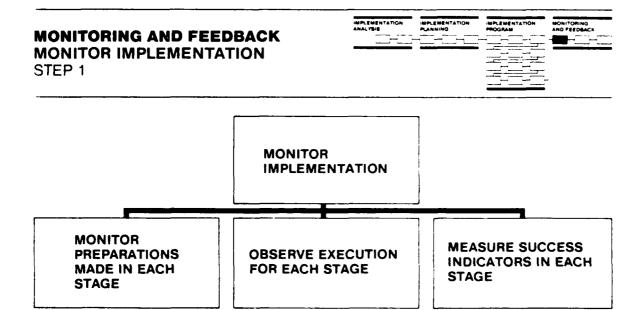
STEP 1: MONITOR IMPLEMENTATION.

Collect data to describe the current status of the implementation program: preparation, execution and successes.

STEP 2: DIAGNOSE PROBLEMS AND ACHIEVEMENTS. Analyze the data collected in Step 1 to determine if the preparations were adequate, the program effectively executed, and success achieved at each stage of implementation.

STEP 3: PROVIDE FEEDBACK TO APPRO-PRIATE ACTION AGENCIES. Information is fed back to facilitate negotiations and decision making to improve the product or its support, as necessary.





Monitor implementation in order to collect timely information about the Preparation, Execution and Success Indicators at each stage of the Implementation Program.

- MONITOR PREPARATIONS MADE IN EACH STAGE: Although you may not be able to observe the actions of other concerned agencies, you can keep in touch with the preparations through telephone calls, having yourself placed on agency information routing lists, and keeping in touch with points of contact on a scheduled basis.
- OBSERVE EXECUTION FOR EACH STAGE: To ensure that things are being done right, collect on-site information from a sample of units involved in implementation.

• MEASURE SUCCESS INDICATORS IN EACH STAGE: The most important information comes from users. Be certain to ask (either observe or survey individuals and unit leaders) if the implementation program is having the desired effect! If it is not possible to obtain information from every user unit, be sure to obtain information from a sample that is representative of the different kinds and locations of user units.

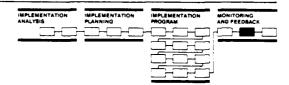
Next to the execution of implementation program, monitoring implementation is the most important action to take. You have to know what impact your program is having on users in order to determine what actions to take next.

Different products may require different kinds of data recording forms for collecting feedback. An example of a possible data recording form is shown in Figure 27. You'll need forms to record information about each phase of each stage.

FIGURE 27 AN EXAMPLE OF A POSSIBLE DATA COLLECTION FORM

Using the plan for the implementation program **MONITOR** (Pg. 25 - 53), develop data **IMPLEMENTATION** recording forms for each phase of each stage INTEGRATION STAGE **INTEGRATION STAGE** TRIAL STAGE TRIAL STAGE FIELDING STAGE FIELDING STAGE **ORIENTATION STAGE ORIENTATION STAGE MONITOR PREPARATIONS OBSERVE EXECUTION** Current Data Current Data **EEA EEA** Status Source Status Source (list all items (list all items on worksheet on worksheet shown shown on on Pg. 25) Pg.27) 1. Motivate 1. Agreements and coordinations 2. Educate 2. Plans and 3. Assist materials 4. Regulate INTEGRATION STAGE TRIAL STAGE FIELDING STAGE **ORIENTATION STAGE MEASURE SUCCESS INDICATORS** Current Data **EEA** Source Status (list all items on worksheet shown on Pg. 29) 1. Acceptance 2. Know-how 3. Management 4. Policy





DIAGNOSE PROBLEMS AND ACHIEVEMENTS

ARE PREPARATIONS
ADEQUATE TO
SUPPORT
PROGRAM?

IS PROGRAM BEING EXECUTED EFFECTIVELY?

IS IMPLEMENTATION SUCCESS INDICATED?

This step in monitoring and feedback is designed to diagnose strengths and weaknesses in the implementation program. It requires the data obtained about EEA (which were developed during Step 3 of implementation planning; See Pg. 19) be analyzed and results quantified. Quantifying serves two purposes. First, it reduces results to the simplest possible terms. If, for example, you use a scale that ranges from 0-4 where 0 indicates "totally unsatisfactory" for a given element of the program and 4 indicates "totally satisfactory", then the current status on any particular element of the program can be easily translated into a need for action: 0 or 1 means "do something to improve the situation with respect to this element', 2

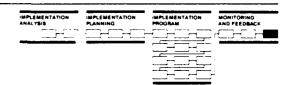
means "keep a careful eye on this element", and 3 or 4 means "no problem". The second advantage of quantifying is that results can be easily scanned to identify the pattern of implementation problem that is being encountered. For example, problems may cluster within a particular stage (e.g. everything was going great until "trial") or within a particular phase across stages (e.g. success is not indicated despite excellent execution of the program). Different patterns will require different kinds of corrective action. To complete Step 2 you will need a data analysis sheet for each stage of the implementation program. Figure 28 provides a possible format for data analysis sheets.

FIGURE 28 AN EXAMPLE OF A POSSIBLE FORMAT FOR DATA ANALYSIS SHEETS

4. Policy

DIAGNOSE PROBLEMS AND ACHIEVEMENTS Using "current status" information (see Pg. 57), answer these questions INTEGRATION STAGE INTEGRATION STAG TRIAL STAGE TRIAL STAGE FIELDING STAGE FIELDING STAGE **ORIENTATION STAGE ORIENTATION STAGE** ARE PREPARATIONS ADEQUATE TO SUPPORT PROGRAM? IS PROGRAM BEING EXECUTED EFFECTIVELY? Cómpletely inadequate Completely Ineffective Completely adequate Completely Marginal effective EEA EEA (list all EEA 4 3 2 0 (list all EEA 4 3 2 0 from appropriate from appropriate data collection forms) data collection forms) 1. Agreements and 1. Motivate coordinations 2. Educate 2. Plans and material 3. Assist preparations 4. Regulate INTEGRATION STAGE TRIAL STAGE FIELDING STAGE **ORIENTATION STAGE** IS IMPLEMENTATION SUCCESS INDICATED? Outstanding Margina EEA Failure (list all EEA from 4 3 2 1 0 appropriate data collection forms) 1. Acceptance 2. Know-how 3. Management





PROVIDE FEEDBACK TO APPROPRIATE ACTION AGENCIES

IMMEDIATE FEEDBACK REGARDING SPECIFIC PROBLEMS THAT SHOULD BE CORRECTED ON-THE-SPOT

MID-RANGE FEEDBACK FOR BROADER PROGRAM ISSUES.

LONG-RANGE FEEDBACK FOR POLICY ISSUES

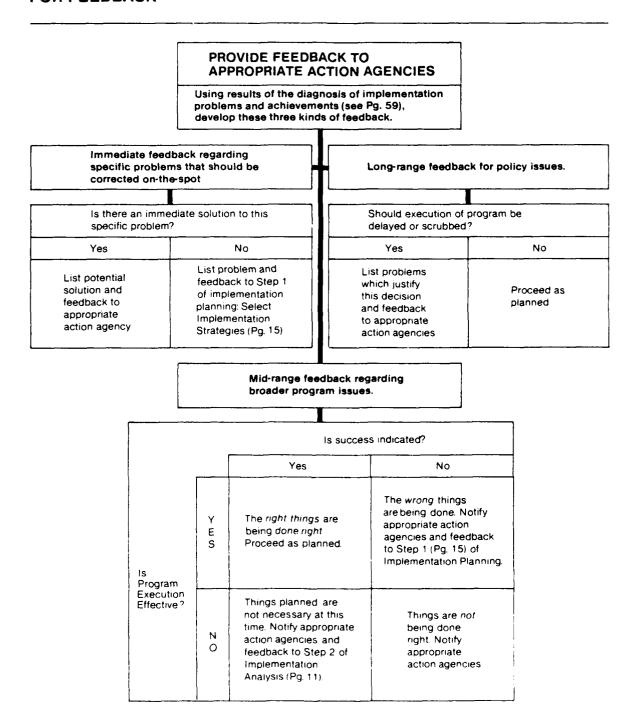
In order to ensure success for the Implementation Program, you must provide feedback to appropriate action agencies. Use results of the diagnosis of implementation problems and achievements to develop three kinds of feedback.

- IMMEDIATE FEEDBACK REGARDING SPECIFIC PROBLEMS THAT SHOULD BE CORRECTED ON-THE-SPOT. If there is an immediate solution to an implementation problem, make appropriate recommendations to the action agency. Otherwise return to Step 1 of Implementation Planning and alteryour implementation program. You will have to select new strategies to cope with persistent or unexpected problems.
- MID-RANGE FEEDBACK FOR BROADER PROGRAM ISSUES. Use data collected to compare program execution with program success. This comparison will tell you if your plan is working, if it needs revising, or if the effort can be reduced without degrading implementation. Problems identified by this process may require solution at the MACOM level.

 LONG-RANGE FEEDBACK FOR POLICY ISSUES. Use diagnosis of implementation problems to assist high-level policy makers in determining whether the present product implementation program should be continued, modified, delayed or scrubbed.

The information shown in Figure 29 provides general guidelines for feeding information back to control the implementation program, recommend improvements in the product, and contribute to policy decisions to ensure that the product gets used to best effect in the operational environment.

FIGURE 29 GENERAL GUIDELINES FOR FEEDBACK



SUMMARY

This guide describes a strategy for implementing training products in operational units. It establishes procedures which guide an implementation effort from the time a product is fully developed until it is integrated into training in units. Its purpose is to ensure that the product is used in the way that it should be used. Using the guide's procedures you can analyze a training product's characteristics, forecast potential implementation problems, develop and execute a tailored-made implementation program and monitor your progress throughout the implementation process. The guide does not tell you how to develop a product, although it does provide feedback to developers about needed modifications which might improve the product's chances of being successfully implemented. It is not a manual for evaluating the training effectiveness of a product, although it does identify where such evaluations fit into an implementation program. TRADOC publications such as TRADOC Pamphlet 350-30 (Interservice Procedures for Instructional Systems Development (ISD)) describe procedures for training product development. Publications such as TRADOC Pamphlet 71-8 (Analyzing Training Effectiveness) describe procedures for planning and conducting training product effectiveness evaluations. What these manuals do not tell you is how to get a training product used. This guide will help close that "implementation gap" and ensure that products are used to best effect in operational units.

PRODUCT MANAGER'S IMPLEMENTATION CHECKLIST

The following checklist will assist in the analysis, planning, execution and monitoring of an Implementation Program for an exportable training product

	TARGET DATE
CONDUCT IMPLEMENTATION ANALYSIS	
Obtain information for a training product analysis (pg. 9)	
Identify Potential Implementation Problems (pg. 11)	
DEVELOP AN IMPLEMENTATION PLAN	
Select Implementation Strategies (pg. 15)	
Develop action plans for each implementation stage (Execution Phases)	
-Stage 1: (pg. 27) -Stage 2: (pg. 35) -Stage 3: (pg. 43) -Stage 4: (pg. 51)	
Coordinate with external agencies involved in implementation effort (Preparation Phases)	
-Stage 1: (pg. 25) -Stage 2: (pg. 33) -Stage 3: (pg. 41) -Stage 4: (pg. 49)	
Establish outcome criteria for each implementation stage (Success Indicators Phases)	
-Stage 1: (pg. 29) -Stage 2: (pg. 37) -Stage 3: (pg. 45) -Stage 4: (pg. 53)	
DEVELOP PLAN FOR MONITORING AND FEEDBACK	

(pg. 19)

•	ARGET DATE	TARGET DATE
EXECUTE AND MONITOR THE IMPLEMENTATION PROGRAM Stage 1: Orientation - request support and make advanced coordination (pg. 25) - collect data and provide feedback to ensure adequate preparation (pg. 57) - execute action plans (pg. 27) - observe execution and provide feedback to ensure effectiveness (pg. 57) - measures success indicators (pg. 29, 57) - feedback information and	Stage 3: Trial - request support and advanced coordinati - collect data and provous to ensure adequate (pg. 57) - execute action plansing to observe execution a feedback to ensure effectiveness (pg. 57) - measure success in (pg. 53) - feedback information recommend correctic (pg. 59, 61)	on (pg. 41) vide feedback preparation s (pg. 43) nd provide ') dicators n and
recommend corrective action (pg. 59, 61) Stage 2: Fielding - request support and make advanced coordination (pg. 33) - collect data and provide feedback to ensure adequate preparation (pg. 57) - execute action plans (pg. 35) - observe execution and provide feedback to ensure effectiveness (pg. 57) - measure success indicators (pg. 37) - feedback information and recommend corrective action (pg. 59, 61)	Stage 4: Integration - request support and advanced coordinati - collect data and provide to ensure adequate (pg. 57) - execute action plansing to ensure execution a feedback to ensure (pg. 57) - measure success in (pg. 53) - feedback information recommend correcti (pg. 59, 61) - establish schedule a procedures for period of product utilization	make fon (pg. 49) vide feedback preparation s (pg. 51) nd provide effectiveness dicators n and ve action and odic review